Claims.

1. An elastomer material having an absorption coefficient for laser light of 0.5 – 2.5 mm⁻¹.

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- 2. An elastomer material according to claim 1 comprising a base thermoplastic elastomer compounded with a colourant to have the absorption coefficient for laser light of $0.5 2.5 \text{ mm}^{-1}$.
- 10 3. An elastomer material according to claim 1 or claim 3 wherein the base thermoplastic elastomer has a melting point of 200°C or less.
 - 4. An elastomer material according to claim 2 or 3 wherein the base thermoplastic elastomer is a styrene-ethylene/butylene-styrene thermoplastic elastomer, or a styrene/butadiene/styrene tri-block copolymer or styrene-(butadiene/butylene)-styrene tri-block copolymer.
 - 5. An elastomer material according to claim 2, 3 or 4 wherein the base thermoplastic elastomer is selected from the materials EvopreneTM, CawitonTM, and C-Flex.
 - 6. An elastomer material according to any one of claims 2 to 5 wherein the colourant comprises a pigment or mixture of pigments mixed with a carrier material.
- 7. An elastomer material according to claim 6 wherein the pigment or mixture thereof has the colour Pantone 5497C, 556C, 5565C, 563C, 570C, 555C or a similar grey or grey-green colour.
- 8. An elastomer material according to claim 6 or 7 wherein the colourant comprises a mixture of the pigments: white 6, black 7, green 7 and blue 29.

9. An elastomer material according to claim 6, 7 or 8 wherein the carrier material comprises ethylene vinyl acetate, low density polyethylene or polypropylene

- 10. An elastomer material according to any one of claims 7 to 10 wherein the
 5 colourant comprises 10 50 wt.% pigment, the balance up to 100% comprising the carrier material.
- 11. An elastomer material according to any one of claims 7 to 11 comprising 1 –
 15wt.% of colourant the balance up to 100% comprising the base thermoplastic
 10 elastomer.
 - 12. An elastomer material according to claim 1 which comprises Evoprene[™] Super G, compounded with 1 − 5 wt% of a colourant masterbatch comprising an ethylene vinyl acetate carrier with 35 45wt% of pigment of a colour Pantone 5497C, 556C, 5565C, 563C, 570C, 555C or a similar grey or grey-geen colour.

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- 13. An elastomer material according to claim 1 which comprises Evoprene[™] TS2525, compounded with 1 − 5 wt% of a colourant masterbatch comprising an ethylene vinyl acetate carrier with 35 45wt% of pigment of a colour colour Pantone 5497C, 556C, 5565C, 563C, 570C, 555C or a similar grey or grey-geen colour.
- 14. An elastomer material according to claim 1 which comprises Cawiton[™] PR5947, compounded with 3 15 wt% of a colourant masterbatch comprising an LDPE carrier with 15 20 wt% of pigment of a colour Pantone 5497C, 556C, 5565C, 563C, 570C, 555C or a similar grey or grey-geen colour.
 - 15. An elastomer material according to any one of the preceding claims which in a thickness ca 2mm allows less than 6% of laser power up to 8W incident power to pass through.
- 16. An elastomer material according to any one of the preceding claims having an absorption coefficient in the range $1.0 2.5 \text{ mm}^{-1}$.

17. An elastomer material according to claim 16 having an absorption coefficient $1.5 - 2.2 \text{ mm}^{-1}$.

- 5 18. An elastomer material according to claim 18 having an absorption coefficient $1.4 1.6 \text{ mm}^{-1}$.
 - 19. A closure for a pharmaceutical vial made wholly or partly of an elastomer material as claimed in any one of the preceding claims.

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- 20. A closure for a pharmaceutical vial having a closure wall comprised of an elastomer material such that when laser light is directed on the outer surface of the closure wall 99% of the laser power is absorbed within 0.5 2.5 mm depth from the outer surface with the effect of melting the material.
 - 21. A closure for a pharmaceutical vial, made wholly or partly of a thermoplastic elastomer compounded with a colourant to the extent that less than 6% of laser light of wavelength 980nm at an incident laser power up to 8W penetrates through the closure to reach the interior of the vial or syringe.
 - 23. A process for introducing a substance into a vial comprising: providing a vial having a mouth opening closed by a closure as claimed in any one of claims 19 to 21, passing a hollow needle through the closure, introducing the substance into the vial via the needle, withdrawing the needle from the vial and closure, and sealing the residual puncture hole in the closure by heat sealing.
 - 24. A process according to claim 23 wherein the heating of the elastomer material of the closure adjacent the puncture site so that the material fuses is done by directing laser light onto the elastomer material adjacent the puncture site.
 - 25. A process according to claim 24 wherein the laser light has a power less than 20W.

26. A process according to claim 25 wherein the laser light has a power 4-10W.

- 27. A process according to any one of claims 24 to 26 wherein the laser beam has a wavelength in the range 960-1000nm.
 - 28. A process according to any one of claims 24 to 27 wherein the laser light is directed at the elastomer material adjacent to the puncture site for a period of 0.5-2 seconds

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